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#### ABSTRACT

The present invention relates to novel cytoplasmic tyrosine kinases isolated from megakaryocytes (megakaryocyte kinases or MKKs) which 5 are involved in cellular signal transduction pathways and to the use of these novel proteins in the diagnosis and treatment of disease.↑

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The present invention further relates to specific megakaryocyte kinases, designated MKK1, MKK2 and MKK3, 10 and their use as diagnostic and therapeutic agents.

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